



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/899,617	07/05/2001	Dwip N. Banerjee	AUS9-2000-0841-US1	4057
7590 12/15/2004			EXAMINER	
Edmond A. DeFrank 20145 Via Medici Northridge, CA 91326			LEE, CHI HO A	
			ART UNIT	PAPER NUMBER
			2663	
DATE MAILED: 12/15/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/899,617

Applicant(s)

BANERJEE ET AL.

Examiner

Andrew Lee

Art Unit

2663

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 September 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 2, 4-7, 9-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Daizo U.S. Patent Number 6,424,654.

Re Claims 1, 15, 19, client 12 of LAN 1 requests IP address from DHCP server 11 (processor) and DHCP server 11 determines and assigns an IP address from its local addressing pool (memory) (See col. 4, lines 10-48).

Re Claim 2, refer to Claim 1, further teaches the DHCP 12 (other processor) associated with it's own addressing space (other network addresses).

Re Claims 4, 14, 16, 17, refer to Claim 1, wherein the client requests the DHCP server, hence, when the Client receives the Offer Packet the "determining ...the process is executing on the processor" is inherently known.

Re Claim 5, refer to Claim 1, wherein the DISCOVERY Packet inherently identifies the DHCP server (the processor).

Art Unit: 2663

Re Claim 6, refer to Claim 1, wherein DHCP 11 not only can assign IP addresses for LAN 1 clients but also for clients in LAN 2 (using both local and remote addressing table).

Re Claim 7, refer to Claim 1, wherein the addressing space is inherently a data structure (See fig. 3).

Re Claim 9, the DHCP inherently in a computer readable medium having instructions.

Re Claims 10-13, 18, refer to Claim 1, wherein DHCP servers 11 and 21 (a multi-node server) are each associated with its own addressing space (memory...at least one network address; local memory).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 3, 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daizo U.S. Patent Number 6,424,654.

Re Claim 3, refer to Claim 1, DHCP 11 not only can assign IP addresses for LAN 1 clients but also for clients in LAN 2. However, Daizo fails to explicitly teach that the address from remote processor is allocated if the local network address is not available. However, one skilled in the art would have been motivated to assign remote IP address reliable connectivity to the network. Meaning, each DHCP 11 assigns IP address based

Art Unit: 2663

on availability, if one DHCP IP address pool is all used, using available IP address at a remote DHCP would have been an obvious expedient.

5. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Daizo U.S. Patent Number 6,424,654 in view of Liao U.S. Patent Number 6,633,865.

Re Claim 8, Daizo fails to explicitly teach that the data structure is a hash table. However Liao teaches Hash function is used for fast MAC address lookup (See col. 2, lines 4-14). One skilled in the art would have been motivated to use hashing for MAC address lookup to enable a faster ARP resolution. Therefore, it would have been obvious to one ordinary skilled incorporate the hashing function in Liao into IP assignment in Daizo.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Lee whose telephone number is 571-272-3130. The examiner can normally be reached on Monday to Friday from 8:30AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on 571-571-3126. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2663

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


ANDY LEE
PATENT EXAMINER
12/06/04